



U.S. Department
of Transportation

Research and
Special Programs
Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0494/S, REVISION 1

400 Seventh Street, S.W.
Washington, D.C. 20590

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - Omnitron International, Inc. Source Wire Model Nos. SL-777 and SL-777V.
2. Source Description - The sources approved by this certificate are used for brachytherapy treatments and consist of a nickel-titanium wire measuring 0.58 mm (0.023") in diameter x either 2210 mm (87") (SL-777) or 2585 mm (102") (SL-777V) in length. The end of the source wires are drilled to a depth of approximately 12.7 mm (0.5"). Once the metallic iridium (overall length approximately 10 mm (0.39")) is placed inside the source wire, the plug (0.38 mm (0.015") in diameter x 1 mm (0.039")) is inserted and tungsten-inert-gas welded. An illustration of the source wires is attached.
3. Radioactive Contents - The sources consist of not more than 0.48 TBq (13 Ci) of Ir-192 in the form of metallic iridium.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 209 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires September 1, 2005.

¹ "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1985 Edition, as amended 1990", published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

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CERTIFICATE USA/0494/S, REVISION 1

This certificate is issued in accordance with paragraph 703 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated May 24, 2000 and August 21, 2000 submitted by Alpha Omega Services, Inc., Bellflower, CA, and in consideration of other information on file in this Office.

Certified by:



Robert A. McGuire

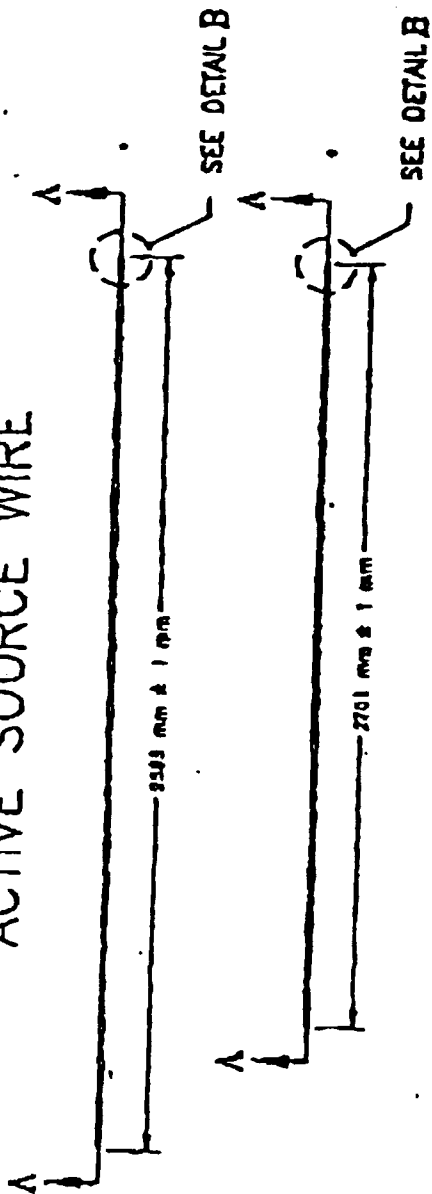
Associate Administrator for
Hazardous Materials Safety

SEP - 1 2000

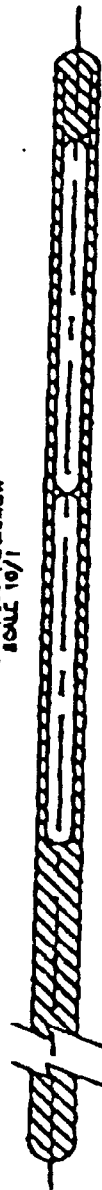
(DATE)

Revision 1 - Issued to extend expiration date.

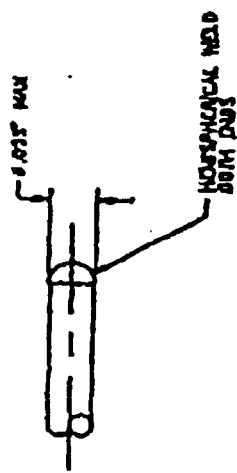
ACTIVE SOURCE WIRE



SECTION A--A
SOURCE & PLUG PLACEMENT
SCALE 10/1



DETAIL B
TIP WELD, BOTH ENDS
SCALE 10/1



1/16" (1.57 mm) max